

## I/ We claim:

1. A surgical system comprising:

a membrane, the membrane further comprising:

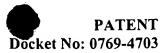
an adhesive disposed on a first side of the membrane to adhere to a surgical site; and

a fold in the membrane to form an envelope, the first side of the membrane forming the exterior of the envelope;
a seal to substantially close the envelope; and
an implement disposed within the envelope.

- 2. A system according to claim 1, further comprising a removable cover on the adhesive.
- 3. A system according to claim 1, wherein the adhesive is disposed in the vicinity of the fold.
- 4. A system according to claim 1, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.
- 5. A system according to claim 1, further comprising a port communicating between the interior and the exterior of the envelope.
- 6. A system according to claim 5, wherein the port includes a removable seal.



- 7. A system according to claim 5, wherein the port includes an extension for introduction into an incision.
- 8. A system according to claim 5, wherein the port includes a seal cooperating with the membrane.
- 9. A system according to claim 5, wherein the port includes an opening in the membrane.
- 10. A system according to claim 5, wherein the port includes an area of the membrane intended for an incision.
  - 11. A system according to claim 5, wherein the fold is proximate to the port.
- 12. A system according to claim 5, wherein the implement and port are configured to cooperate with each other.
- 13. A system according to claim 1, further comprising an opener to open the envelope,
- 14. A system according to claim 13, wherein the opener is configured to allow the envelope to be substantially opened.
- 15. A system according to claim 13, wherein the opener is configured to allow the membrane to be substantially flat.
  - 16. A system according to claim 13, wherein the opener includes a tear seal.
  - 17. A system according to claim 13, wherein the opener opens the seal.

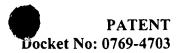


- 18. A system according to claim 1, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
  - 19. A system according to claim 1, wherein the membrane is flexible or rigid.
- 20. A system according to claim 1, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.
  - 21. A system according to claim 1, wherein the implement is disposable.
  - 22. A system according to claim 1, wherein the implement is reusable.
- 23. A system according to claim 1, wherein the implement includes plastic parts.
- 24. A system according to claim 1, wherein the implement includes durable parts.
  - 25. A surgical system comprising:

a membrane, the membrane further comprising:

an adhesive disposed on a first side of the membrane to adhere to a surgical site;

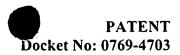
a fold in the membrane to form an envelope, the first side of the membrane forming the exterior of the envelope; and a seal to substantially close the envelope.



- 26. A system according to claim 25, further comprising a removable cover on the adhesive.
- 27. A system according to claim 25, wherein the adhesive is disposed in the vicinity of the fold.
- 28. A system according to claim 25, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.
- 29. A system according to claim 25, further comprising a port communicating between an interior and the exterior of the envelope.
- 30. A system according to claim 29, wherein the port includes a removable seal.
- 31. A system according to claim 29, wherein the port includes an extension for introduction into an incision.
- 32. A system according to claim 29, wherein the port includes a seal cooperating with the membrane.
- 33. A system according to claim 29, wherein the port includes an opening in the membrane.
- 34. A system according to claim 29, wherein the port includes an area of the membrane intended for an incision.
  - 35. A system according to claim 29, wherein the fold is proximate to the port.



- 36. A system according to claim 29, wherein the port is configured to cooperate with a surgical implement.
- 37. A system according to claim 25, further comprising an opener to open the envelope.
- 38. A system according to claim 37, wherein the opener is configured to allow the envelope to be substantially opened.
- 39. A system according to claim 37, wherein the opener is configured to allow the membrane to be substantially flat.
  - 40. A system according to claim 37, wherein the opener includes a tear seal.
  - 41. A system according to claim 37, wherein the opener opens the seal.
- 42. A system according to claim 25, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
- 43. A system according to claim 25, wherein the membrane is flexible or rigid.
- 44. A system according to claim 25, further comprising a surgical implement within the envelope.
- 45. A system according to claim 44, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.



- 46. A system according to claim 44, wherein the implement is disposable.
- 47. A system according to claim 44, wherein the implement is reusable.
- 48. A system according to claim 44, wherein the implement includes plastic parts.
- 49. A system according to claim 44, wherein the implement includes durable parts.
  - 50. A surgical system comprising:

a membrane, the membrane including a fold to form an envelope, a first side of the membrane forming the exterior of the envelope;

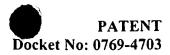
an area of the membrane configured to provide an opening in the membrane; a seal to substantially close the envelope; and

a port disposed proximate to the fold and communicating between the interior and the exterior of the envelope, the port including an extension for insertion into an incision.

- 51. A system according to claim 50, further comprising adhesive cooperating with the membrane.
- 52. A system according to claim 51, further comprising a removable cover on the adhesive.
- 53. A system according to claim 51, wherein the adhesive is disposed in the vicinity of the fold.



- 54. A system according to claim 51, wherein the envelope is two sided as a consequence of the fold and the adhesive is disposed on both sides of the envelope.
- 55. A system according to claim 50, wherein the port includes a removable seal.
- 56. A system according to claim 50, wherein the port includes a seal cooperating with the membrane.
- 57. A system according to claim 50, wherein the port includes an opening in the membrane.
- 58. A system according to claim 50, further comprising a surgical implement within the envelope.
- 59. A system according to claim 58, wherein the implement and port are configured to cooperate with each other.
- 60. A system according to claim 58, wherein the implement is selected from the group that includes implants, implant instruments; implant replacement instruments; implant power replacement instruments; and supplies.
  - 61. A system according to claim 58, wherein the implement is disposable.
  - 62. A system according to claim 58, wherein the implement is reusable.
- 63. A system according to claim 58, wherein the implement includes plastic parts.



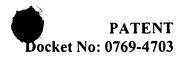
- 64. A system according to claim 58, wherein the implement includes durable parts.
- 65. A system according to claim 50, further comprising an opener to open the envelope.
- 66. A system according to claim 65, wherein the opener is configured to allow the envelope to be substantially opened.
- 67. A system according to claim 65, wherein the opener is configured to allow the membrane to be substantially flat.
  - 68. A system according to claim 65, wherein the opener includes a tear seal.
  - 69. A system according to claim 65, wherein the opener opens the seal.
- 70. A system according to claim 50, wherein the membrane is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
- 71. A system according to claim 50, wherein the membrane is flexible or rigid.
  - 72. A surgical system comprising:
  - a liquid water impermeable membrane configured to cover an incision site;
- a medical grade adhesive disposed on a first side of the membrane to adhere the membrane to skin surrounding the incision site;



a port communicating between the first side of the membrane and a second side of the membrane, wherein the port is configured to permit a medical device to pass therebetween; and

a removable microbe-impermeable seal attached to the port.

- 73. The surgical system of claim 72, further comprising a fold in the membrane to form an envelope, wherein the first side of the membrane forms an exterior surface of the envelope.
  - 74. The surgical system of claim 73, further comprising a seal in the envelope.
  - 75. The surgical system of claim 74, further comprising an opener for the seal.
- 76. The surgical system of claim 73, further comprising a surgical instrument disposed within the envelope.
- 77. The surgical system of claim 73, further comprising a medical device disposed within the envelope.
- 78. The surgical system of claim 77, wherein the medical device is a cell containment device.
- 79. The surgical system of claim 77, wherein the medical device is a containment apparatus for a cell containment device.
- 80. The surgical system of claim 72, further comprising a removable cover on the adhesive.



- Note that the surgical system of claim 72, further comprising an extension on the port for placement in an incision.
- 82. The surgical system of claim 72, wherein the membrane includes a medical grade polymeric material.
- 83. The surgical system of claim 82, wherein the polymeric material is selected from the group that includes densified ePTFE, ePTFE, plastic and cloth.
  - 84. A method to manufacture a surgical apparatus comprising:

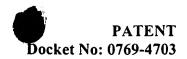
forming an envelope with a membrane, the envelope configured to hold a surgical implement;

disposing an adhesive on an exterior of the envelope, the adhesive to adhere to a surgical site;

placing surgical implements in the envelope; and sealing the envelope.

- 85. A method according to claim 84, further comprising disposing a removable cover on the adhesive.
- 86. A method according to claim 84, further comprising sterilizing the apparatus.
  - 87. A method to manufacture a surgical apparatus comprising:

forming an envelope with a membrane, the envelope configured to hold a surgical implement, the membrane configured with a seal region to seal the envelope; and



disposing an adhesive on an exterior of the envelope, the adhesive to adhere to a surgical site.

- 88. A method according to claim 87, further comprising placing a surgical implement into the envelope.
  - 89. A method according to claim 87, further comprising sealing the envelope.
- 90. A method according to claim 87, further comprising disposing a removable cover on the adhesive.
- 91. A method according to claim 87, further comprising sterilizing the apparatus.
  - 92. A method to manufacture a surgical apparatus comprising:

placing surgical implements in an envelope that is formed with a membrane, the membrane including an adhesive disposed on an exterior of the envelope to adhere to a surgical site; and

sealing the envelope.

- 93. A method according to claim 92, further comprising disposing a removable cover on the adhesive.
- 94. A method according to claim 92, further comprising sterilizing the apparatus.
  - 95. A method to manufacture a surgical apparatus comprising: providing a liquid water impermeable membrane;



disposing a medical grade adhesive on a first side of the membrane the adhesive to adhere the membrane to skin surrounding an incision site;

configuring a port in the membrane, the port communicating between the first side of the membrane and a second side of the membrane, wherein the port is configured to permit a medical device to pass therethrough; and

configuring a removable microbe-impermeable seal attached to the port.

- 96. A method according to claim 95, further comprising creating an envelope by folding the membrane, wherein the first side forms an exterior of the envelope.
  - 97. A method according to claim 96, further comprising sealing the envelope.
- 98. A method according to claim 96, further comprising disposing a surgical instrument within the envelope.
- 99. A method according to claim 96, further comprising disposing a medical device within the envelope.
- 100. A method according to claim 99, wherein the medical device is a cell containment device.
- 101. A method according to claim 99, wherein the medical device is a containment apparatus for a cell containment device.
- 102. A method according to claim 95, further comprising disposing a removable cover on the adhesive.



103. A method according to claim 95, further comprising sterilizing the apparatus.